



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Thyristor Modules

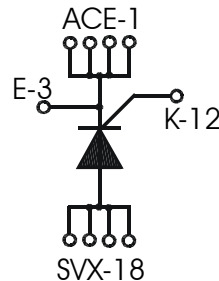
ECO-PAC 2

$$I_{TRMS} = 200 \text{ A}$$

$$I_{TAVM} = 130 \text{ A}$$

$$V_{RRM} = 1200/1600 \text{ V}$$

V_{RSM}	V_{RRM}	Typ
V_{DSM} V	V_{DRM} V	
1300	1200	VCO 132-12io7
1700	1600	VCO 132-16io7



Symbol	Conditions	Maximum Ratings	
I_{TRMS}		200	A
I_{TAVM}	$T_C = 85^\circ\text{C}; T_{VJ} = 130^\circ\text{C}; 180^\circ \text{ sine}$	130	A
I_{TSM}	$T_{VJ} = 45^\circ\text{C}; t = 10 \text{ ms (50 Hz)}$	3600	A
	$V_R = 0; t = 8.3 \text{ ms (60 Hz)}$	3850	A
	$T_{VJ} = 125^\circ\text{C}; t = 10 \text{ ms (50 Hz)}$	3200	A
	$V_R = 0; t = 8.3 \text{ ms (60 Hz)}$	3420	A
I^2t	$T_{VJ} = 45^\circ\text{C}; t = 10 \text{ ms (50 Hz)}$	64 800	A^2s
	$V_R = 0; t = 8.3 \text{ ms (60 Hz)}$	62 300	A^2s
	$T_{VJ} = 125^\circ\text{C}; t = 10 \text{ ms (50 Hz)}$	51 200	A^2s
	$V_R = 0; t = 8.3 \text{ ms (60 Hz)}$	49 100	A^2s
$(di/dt)_{cr}$	$T_{VJ} = 125^\circ\text{C};$ repetitive, $I_T = 250 \text{ A}$ $f = 50 \text{ Hz}; t_p = 200 \mu\text{s};$	150	$\text{A}/\mu\text{s}$
	$V_D = \frac{2}{3} V_{DRM};$ non repetitive, $I_T = I_{TAVM}$ $I_G = 0.5 \text{ A};$ $di_G/dt = 0.5 \text{ A}/\mu\text{s}$	500	$\text{A}/\mu\text{s}$
$(dv/dt)_{cr}$	$T_{VJ} = 125^\circ\text{C}; V_D = \frac{2}{3} V_{DRM};$ $R_{GK} = \infty;$ method 1 (linear voltage rise)	1000	$\text{V}/\mu\text{s}$
P_{GM}	$T_{VJ} = 125^\circ\text{C};$ $t_p = 30 \text{ ms}$	≤ 10	W
	$I_T = I_{T(AV)M};$ $t_p = 300 \text{ ms}$	≤ 5	W
P_{GAVM}		0.5	W
V_{RGM}		10	V
T_{VJ}		-40...+130	$^\circ\text{C}$
T_{VJM}		150	$^\circ\text{C}$
T_{stg}		-40...+125	$^\circ\text{C}$
V_{ISOL}	50/60 Hz, RMS $t = 1 \text{ min}$	3000	V~
	$I_{ISOL} \leq 1 \text{ mA}$ $t = 1 \text{ s}$	3600	V~
M_d	Mounting torque (M4)	1.5 - 2.0	Nm
		14 - 18	lb.in.
Weight	Typical including screws	24	g

Features

- Isolation voltage 3600 V~
- Planar glass passivated chips
- Low forward voltage drop
- Leads suitable for PC board soldering

Applications

- DC Motor control
- Light and temperature control
- Softstart AC motor controller
- Solid state switches

Advantages

- Easy to mount with two screws
- Space and weight savings
- Improved temperature and power cycling
- High power density
- Small and light weight

Data according to IEC 60747 and refer to a single diode unless otherwise stated.

IXYS reserves the right to change limits, test conditions and dimensions.

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Symbol	Conditions	Characteristic Values	
		typ.	max.
I_D, I_R	$V_R / V_D = V_{RRM} / V_{DRM}$	$T_{VJ} = 125^\circ\text{C}$	10 mA
V_T	$I_T = 200 \text{ A}$	$T_{VJ} = 25^\circ\text{C}$	1.3 V
V_{T0}	For power-loss calculations only		0.80 V
r_t			1.65 mΩ
V_{GT}	$V_D = 6 \text{ V}$	$T_{VJ} = 25^\circ\text{C}$	1.5 V
		$T_{VJ} = -40^\circ\text{C}$	1.6 V
I_{GT}	$V_D = 6 \text{ V}$	$T_{VJ} = 25^\circ\text{C}$	300 mA
		$T_{VJ} = -40^\circ\text{C}$	400 mA
V_{GD}	$V_D = \frac{2}{3} V_{DRM}$	$T_{VJ} = 125^\circ\text{C}$	0.2 V
I_{GD}			10 mA
I_L	$t_p = 10 \mu\text{s};$ $I_G = 0.5 \text{ A}; di_G/dt = 0.5 \text{ A}/\mu\text{s}$	$T_{VJ} = 25^\circ\text{C}$	450 mA
I_H	$V_D = 6 \text{ V}; R_{GK} = \infty;$	$T_{VJ} = 25^\circ\text{C}$	200 mA
t_{gd}	$V_D = \frac{1}{2} V_{DRM}$ $I_G = 0.5 \text{ A}; di_G/dt = 0.5 \text{ A}/\mu\text{s}$	$T_{VJ} = 25^\circ\text{C}$	2 μs
R_{thJC}	per thyristor; DC current		0.25 K/W
R_{thJH}		0.35	K/W
d_s	Creeping distance on surface		11.2 mm
d_A	Creepage distance in air		5.0 mm
a	Maximum allowable acceleration		50 m/s ²

Dimensions in mm (1 mm = 0.0394")

